

## Module 30

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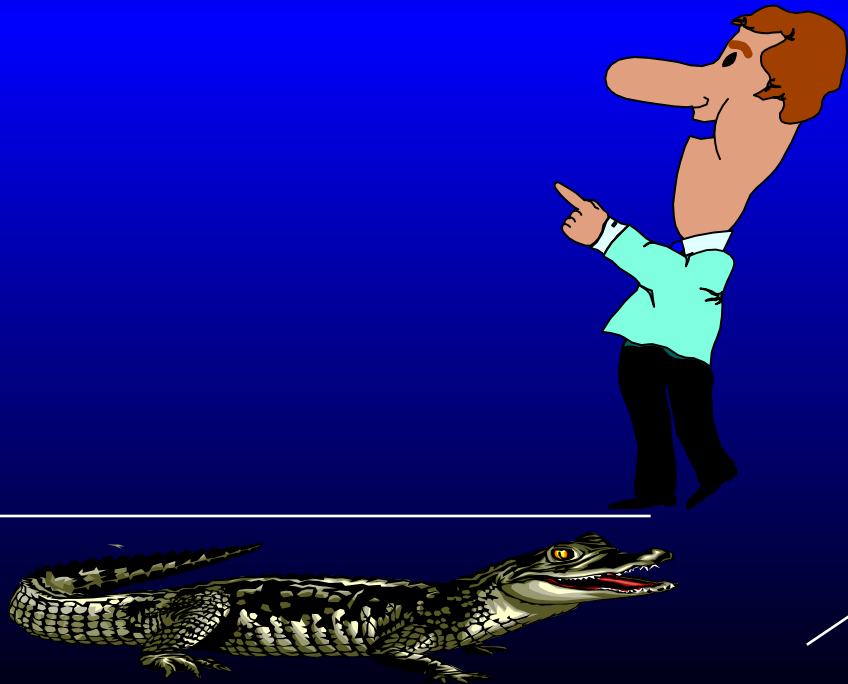
# Homeland Security and Civil Emergency Management

Civil Works Orientation Course -  
FY 11

# Module Objectives:

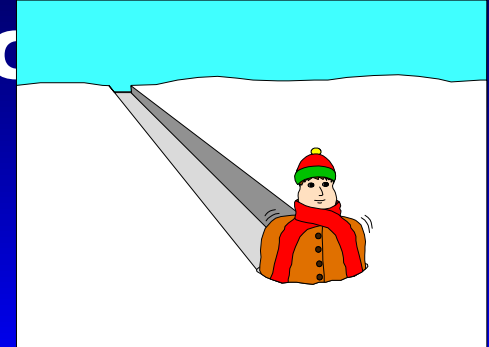
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Provide a basic overview and understanding of the Corps role in Homeland Security and Emergency Operations.

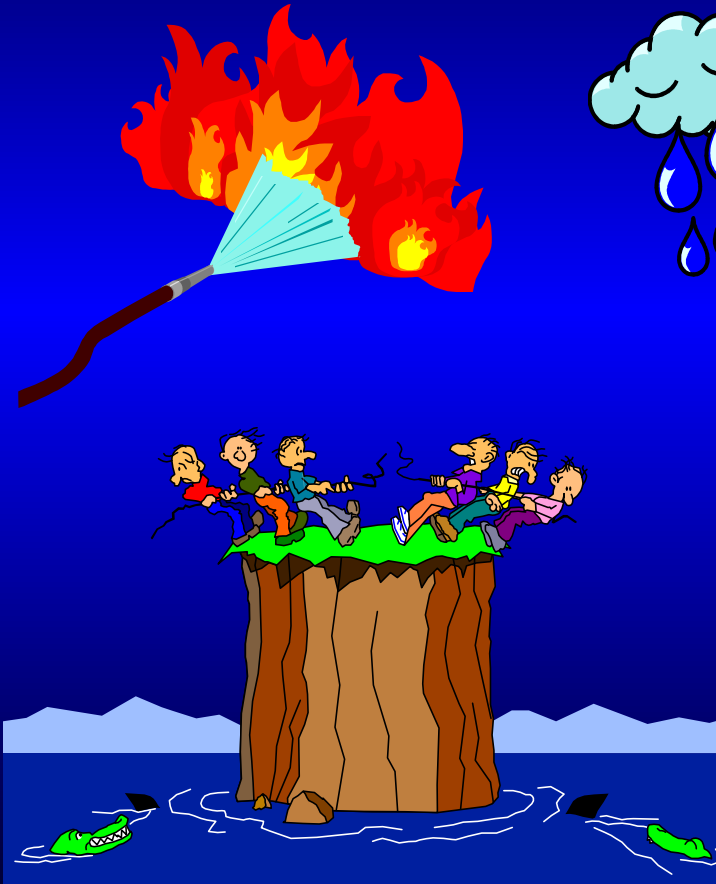
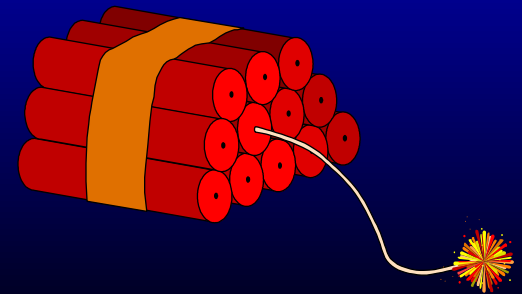


# Emergency Operations

— What is an emergency



**EARTHQUAKE!!**



# Threats / Contingencies / Hazards

- Floods
- Droughts
- Hurricanes
- Tornadoes
- Earthquakes
- Volcanic Eruptions
- Ice Storm
- Civil Disturbances
- Oil/Hazardous Materials
- Nuclear Accidents
- Terrorism
- Low Intensity Conflict
- Conventional War
- Nuclear War

**USACE is an “all-hazards”  
response agency**

# Mission Statement

**USACE continuously provides timely, effective, and efficient disaster preparedness, response, recovery, and mitigation projects and services on a nationwide basis to reduce loss of life and property damage under DOD, USACE, FEMA, and other agencies' authorities.**

# USACE Has Multiple Roles in Response and Recovery

## 1. Support DHS/FEMA



## 2. Support DoD



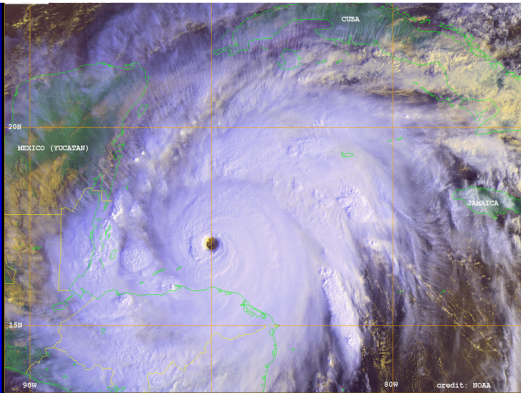
## 3. Execute Corps own missions





# Emergency Authorities Come From:

**DHS / Stafford Act**



**Authorities Through DOD**



**NEPP**



**PL 84-99**



# Support to DoD

- Engineer Staff (J-7) for Joint Task Force
- Field Force Engineering
- Installation Support
- International Disasters and Contingencies



# PL 84-99

Types of Assistance:

- **Technical Assistance**
- **Direct Assistance**
- **Advance Measures Assistance**
- **Emergency Water Assistance**
- **Post Flood Assistance**
- **Rehabilitation Assistance**



# Examples: Response to Katrina under PL 84-99

- Project Conditions Assessment and Repair
  - Locks and Dams
  - Levee Systems
- Navigation
  - Hydrologic Surveys
  - Dredging
- Hurricane and Storm Damage Reduction System



# National Response Plan

Emergency Support Functions (ESF) and Coordinator Agency:

1. Transportation (DOT)
2. Communications (DHS)
3. Public Works & Engineering (DOD = USACE)
4. Firefighting (DOA)
5. Emergency Management (FEMA)
6. Mass Care, Housing, and Human Services
7. Resource Support (GSA)
8. Public Health and Medical Services (DHHS)
9. Urban Search and Rescue (FEMA)
10. Oil and Hazardous Materials (EPA)
11. Agriculture and Natural Resources (DOA)
12. Energy (DOE)
13. Public Safety and Security (DHS/DOJ)
14. Long-Term Community Recovery and Mitigation (DHS)
15. External Affairs (DHS)

• **US Army Corps of Engineers is ESF #3 Primary Coordinating Agency**

• **Typical Mission Areas:**

- Ice/Water
- Emergency Power
- Temporary Roofing
- Critical Public Facilities
- Debris Clearance and Removal
- Support to Urban Search and Rescue
- Infrastructure Assessment
- Technical Assistance

# **Support to Federal Emergency Management Agency (FEMA)**

- **National Response Framework establishes DHS (FEMA) as lead agency for disaster response**
  - **Corps is FEMA's primary engineer and DOD executive agent for the National Response Framework**
- **DoD has designated USACE as primary coordinating agency for Emergency Support Function #3**
- **15 ESFs w/ specified primary agencies**

# Typical Mission Areas for ESF #3

- Ice/Water
- Emergency Power
- Temporary Roofing- (Blue Roofs)
- Debris Clearance & Removal
- Support for Urban Search and Rescue
- Infrastructure Assessment
- Critical Public Facilities-police, fire, schools, hospitals, etc.
- Technical Assistance

**Note: Temporary Housing was previously under the ESF #3 mission. It now falls under the ESF #6 mission**

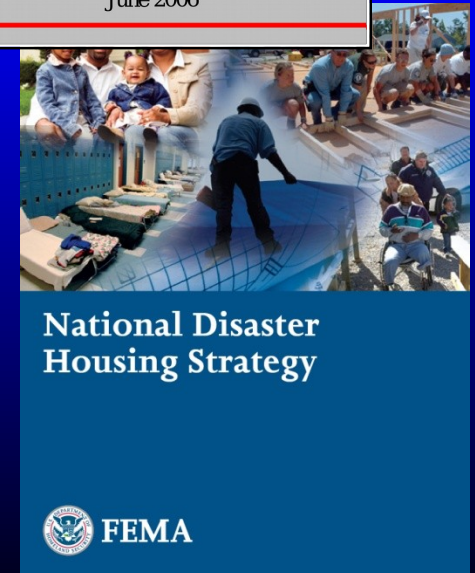
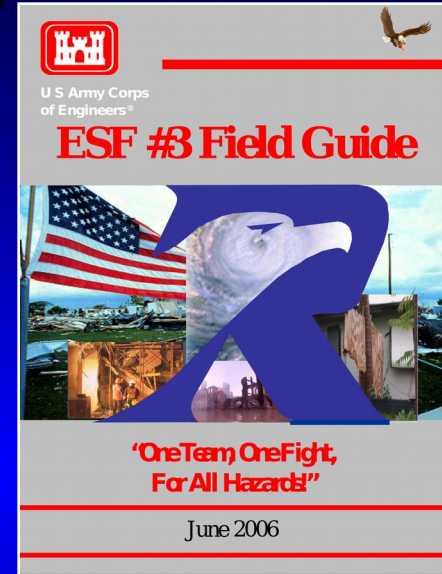
# Response: Teams, Tools, and Strategies

- Planning & Response Teams (*PRT*)
- Advance Contracting Initiatives (*ACI*)
- ESF #3 Team Leader Cadre (*TL / ATL*)
- Subject-Matter-Experts (*SME*)
- Pre-Scripted Mission Assignments (*PSMA*)
- Training, Exercises & Workshops
- Remedial Action Plan (*RAP*)
- ESF #3 Field Guides, Missions, Functional Guides
- Deployable Tactical Operations System (*DTOS*)
- ENGLink Interactive
- Field Force Engineering (*FFE*)



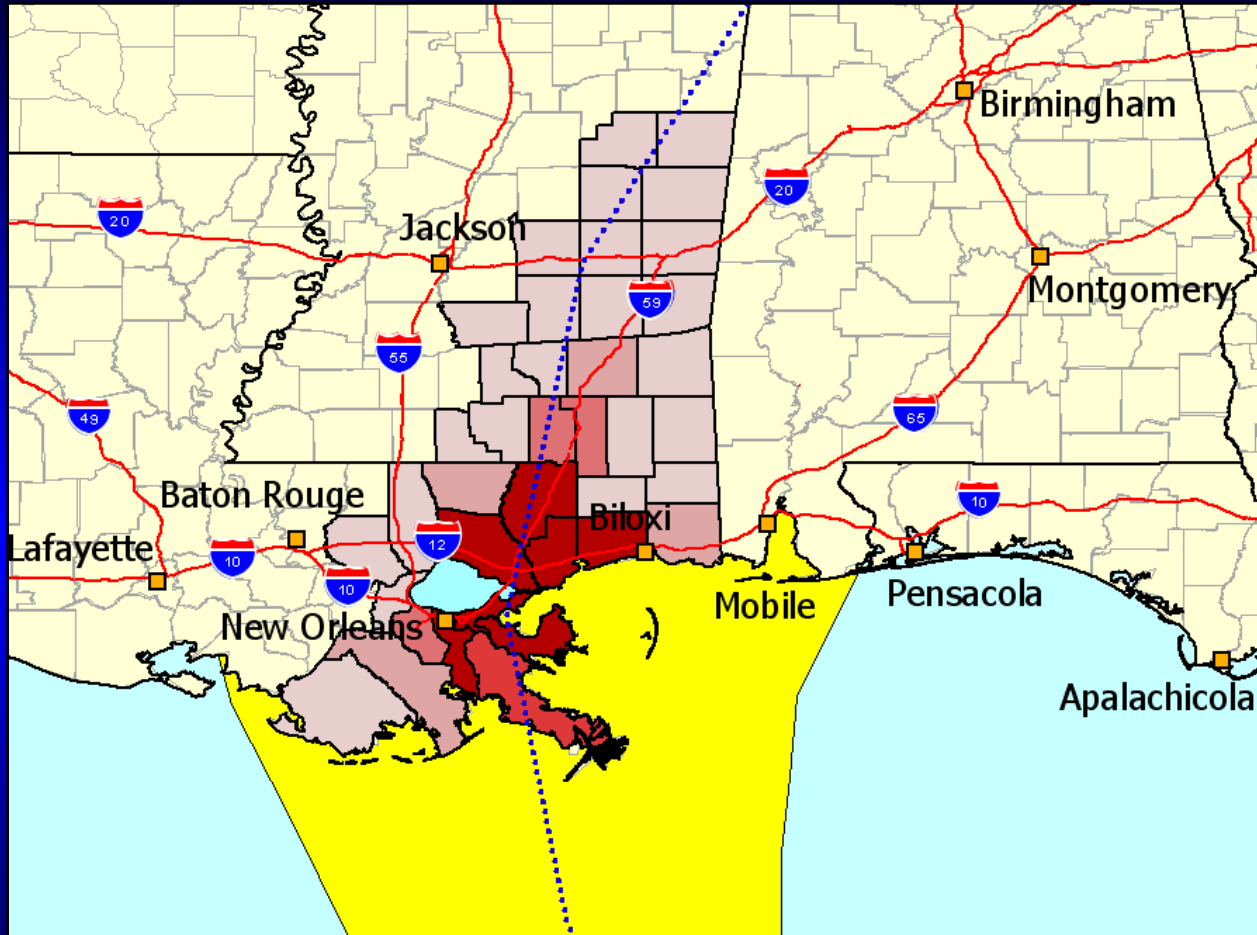
# Planning Tools / Products

- ESF #3 Mission guides
- Functional Guides / SOP
- Forecast Models
- Debris Removal Guides  
(including  
WMD)
- POD  
planning/operational  
guides





# Disaster Models



## *Most Probable Landfall Debris Model Results*

Louisiana - 31,176,000  
yd<sup>3</sup>

Mississippi - 5,961,000  
yd<sup>3</sup>

*Model results per  
parish/county on  
following page*

**This model is based  
on a Category 4  
storm making**

Information provided on this page displays a Category 4 storm making landfall near New Orleans, LA. These projections are based on information from the NHC (0500 EDT 08/28/2005) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at <https://englink.usace.army.mil> or contact ENGLink at 1-877-936-4546



**Hurricane Katrina  
Debris Model**

Generated By:  
Terry Siems, LRL 0600 EDT 08/28/2005

Sources:  
HURREVAC  
LRL-DEBRIS

Page 1 of 2

# Planning and Response Teams (PRT)

**Water (2)**

**Ice (2)**

**Temp Housing (7)  
Critical Public Facilities**

**Emergency Power (7)**

**Debris Removal (5)**

**Disaster  
Site**

**Commodities**

**Infrastructure Assessment**

- **Pre-formed and trained teams deployable within 6 hours to plan, which manage typical ESF #3 missions.**

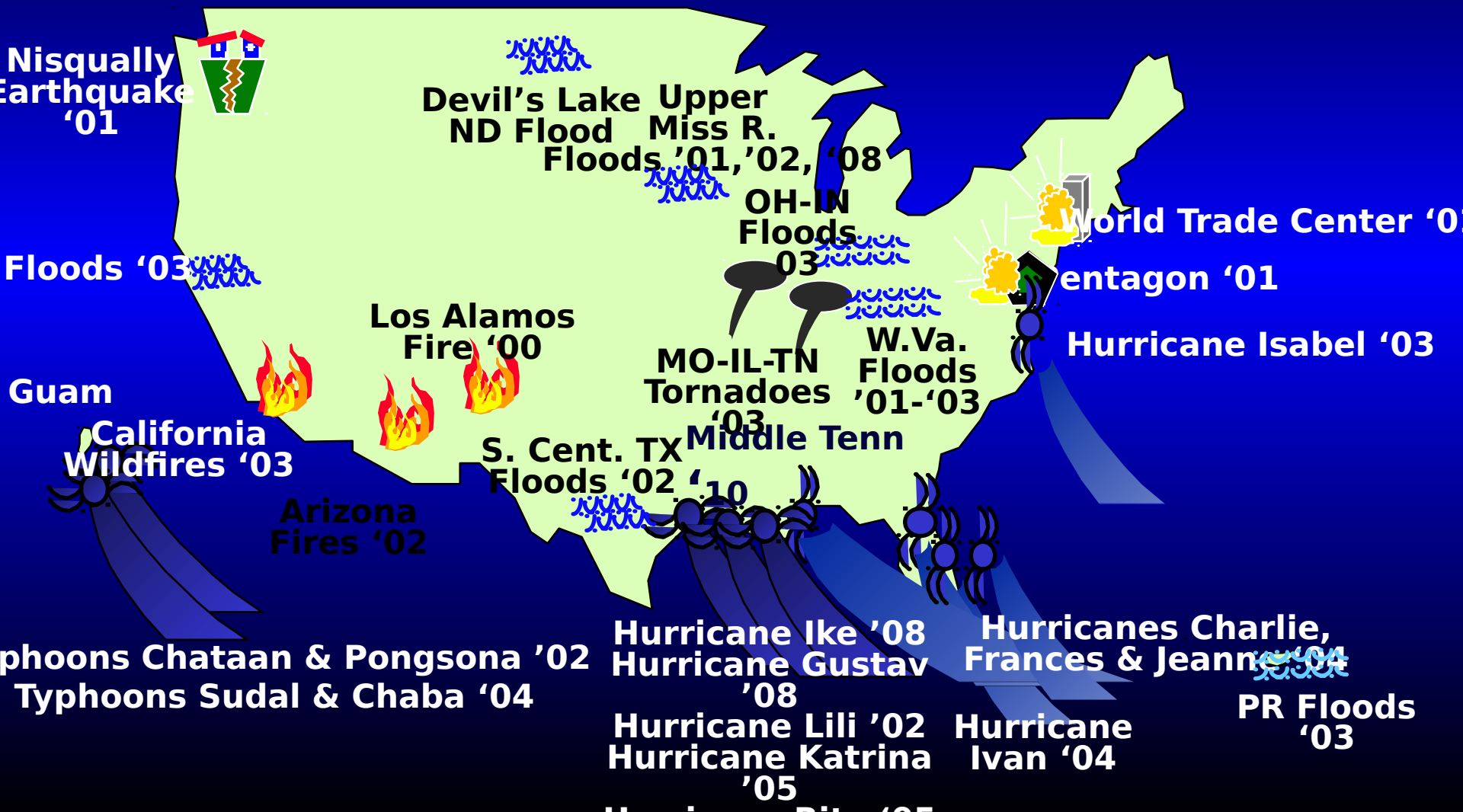
- **PRT volunteers come from all USACE offices around the country.**

# Deployable Tactical Operations Center (DTOC)

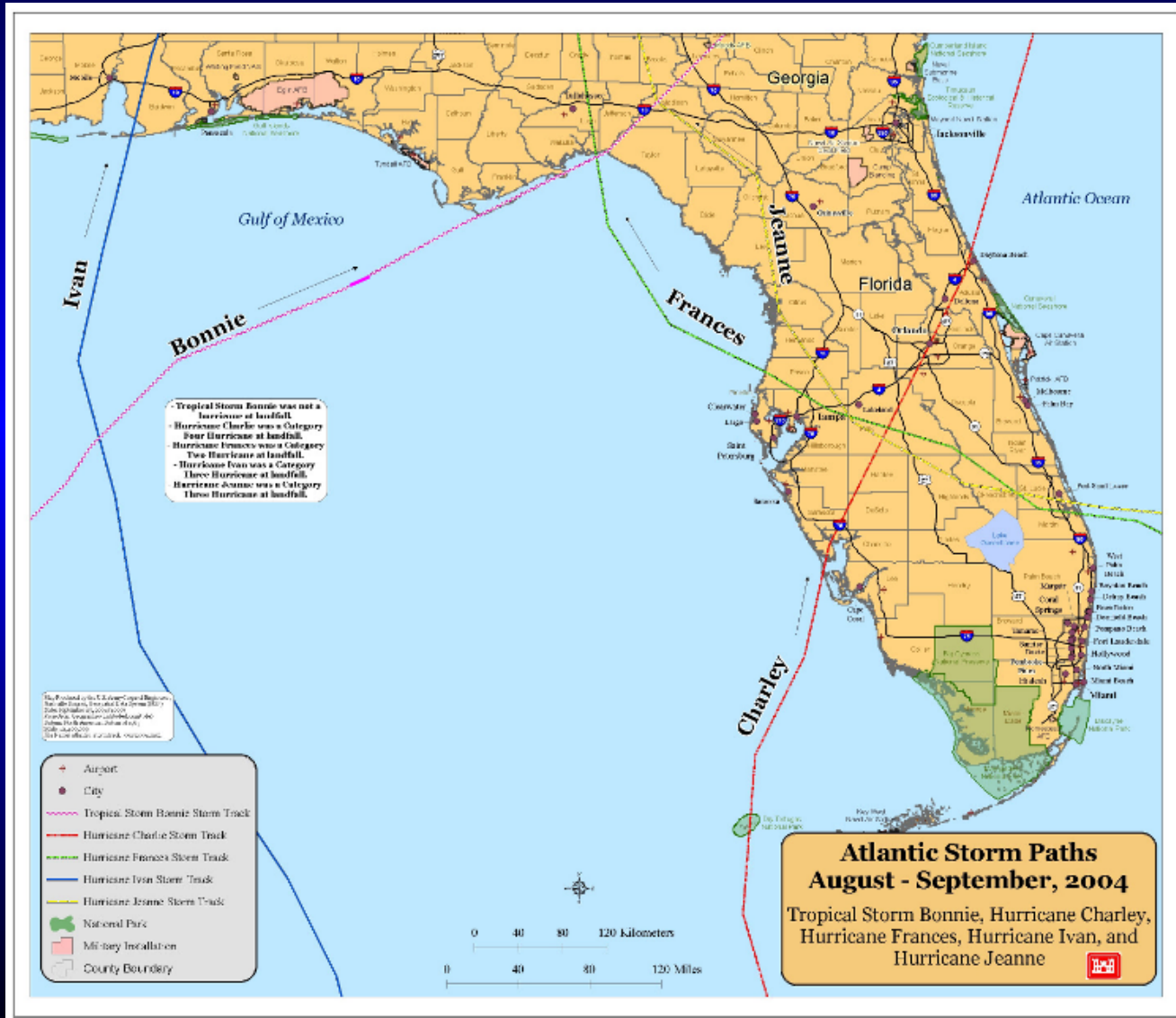


# Emergency Management

Major Disaster Responses 2000-2008



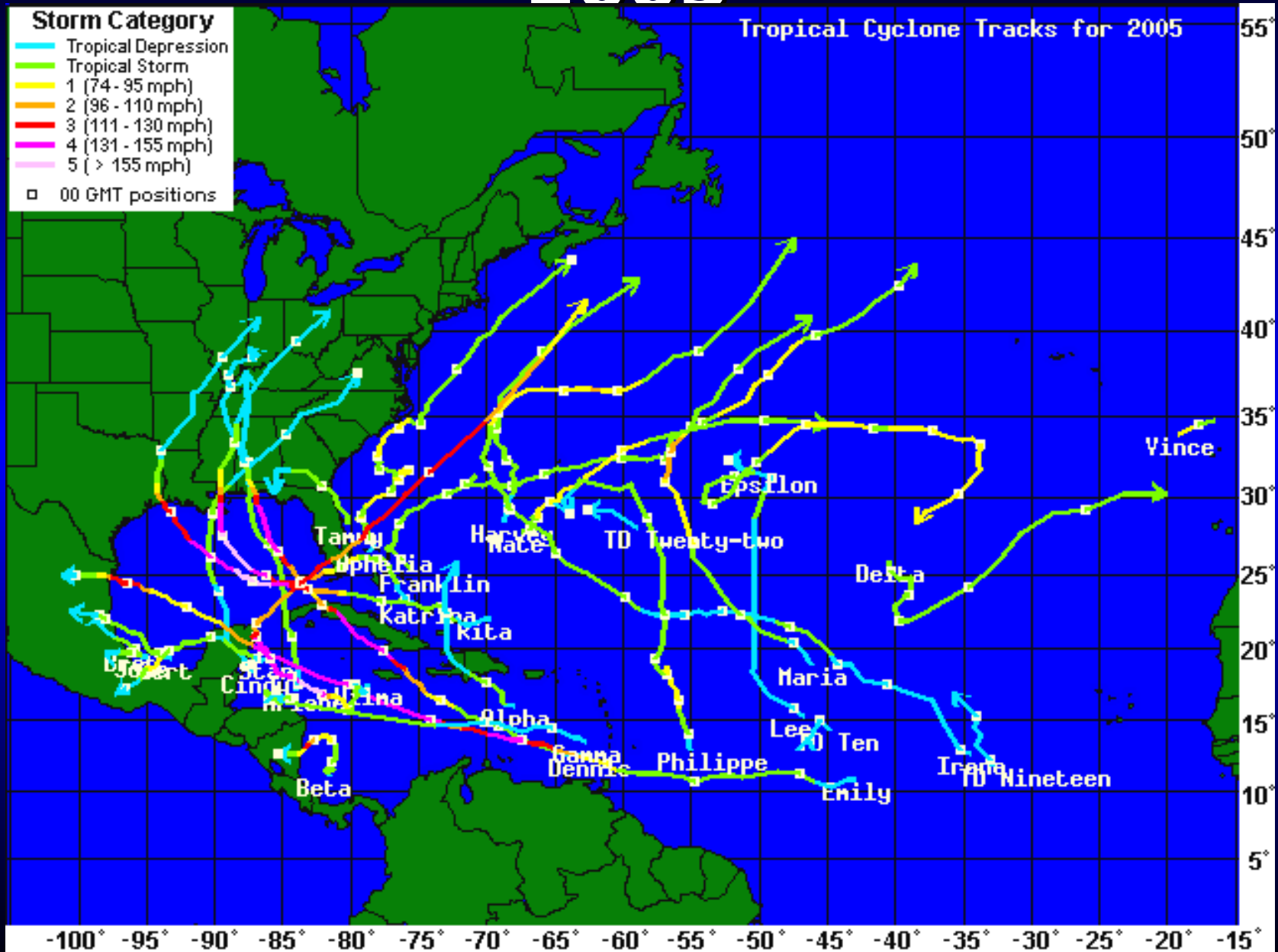
# Situation-Hurricane Tracking 2004





# Situation-Hurricane Tracking

## 2005



# **Selected Examples of Support to FEMA: Statistics from 2005 Hurricanes**

- **Over 7,000 Corps employees supported the response to the hurricanes. Over 1,000 Other federal agency employees also provided support**
- **Approximately 200,000 temporary roofs installed.**
- **The Corps delivered 103 million liters of water and 105 million kgs of ice.**
- **There were 2,406 generator pre-installation inspections, and 914 generators were installed.**
- **Over 50 million cubic yards of debris was removed, and several thousand structures demolished**
- **Total missions received from FEMA exceeded: \$4.5 Billion**



# Disaster Response & Recovery



249th ENGR  
BN



Corps responds to  
severe spring floods







Flood Fighting /  
Emergency  
Operations





Flood Fighting /  
Emergency  
Operations





Pentagon Attack /  
Emergency  
Operations





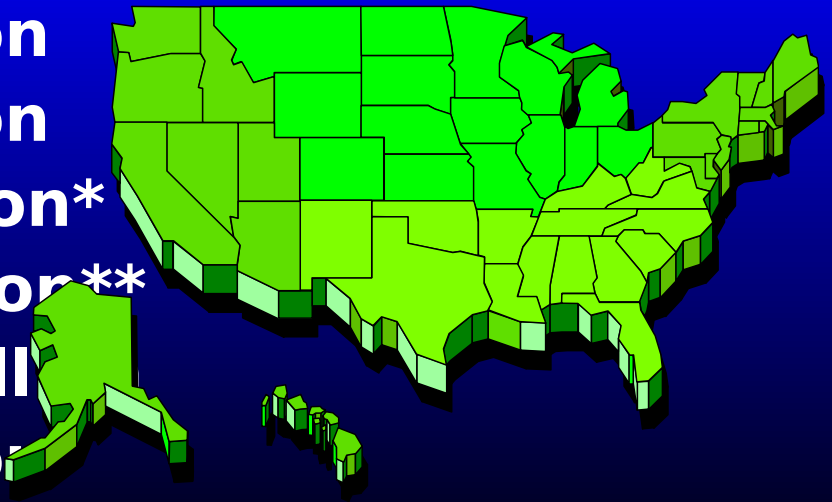
Flood Fighting /  
Emergency  
Operations

# EMERGENCY OPERATIONS

## Flood Control & Coastal Emergencies

### APPROPRIATION DATA:

-	FY 03 - \$	15 Million
-	FY 04 - \$	0 Million
-	FY 05 - \$	0 Million
-	FY 06 - \$	0 Million
-	FY 07 - \$	14 Million*
-	FY 08 - \$	35 Million**
-	FY 09 - \$	0 Million
-	FY 10 - \$	0 Million



# EMERGENCY OPERATIONS

## National Emergency Preparedness Program

### APPROPRIATION DATA:

- FY 03 - \$ 4.1 Million
- FY 04 - \$ 6.0 Million
- FY 05 - \$ 5.0 Million
- FY 06 - \$ 5.0 Million
- FY 07 - \$ 5.0 Million
- FY 08 - \$ 4.7 Million
- FY 09 - \$ 5.4 Million
- FY 10 - \$ 6.6 Million

